Amendments to the Specification

At the end of the application, please replace the current Sequence Listing with the attached paper and computer-readable Sequence Listing.

Please replace the three paragraphs on page 3, lines 13-29, with the following rewritten paragraphs:

The invention is based on a novel gene population as described above. That is to say, the invention provides a human housekeeping gene expressed commonly over 35 different human tissues, which gene is selected from the group consisting of genes Nos.1 to 1189 on Figs. 1 to 39. One of the preferred embodiments of the housekeeping genes is a gene selected from genes Nos.1 to 200 on Figs. 1 to 7, and the base sequences of the cDNAs that are transcription products of each gene, are any of SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

The invention also provides a transcription product of a housekeeping gene described above. It is preferred that the transcription product is an RNA or cDNA, and that a concrete example of the cDNA is a DNA fragment having any of the base sequences of SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

The invention also provides an oligonucleotide probe which hybridizes with the above-mentioned housekeeping gene or the above-mentioned transcription product (RNA or cDNA). In this case, the cDNA preferably has the base sequence of any of SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

Please replace the three paragraphs on page 4, lines 1-19, with the following rewritten paragraphs:

The invention also provides a set of at least two housekeeping genes expressed commonly over 35 different human tissues, wherein each gene of the set is selected from the group consisting of genes Nos.1 to 1189 on Figs. 1 to 39. In this set of gene, each gene is preferably selected predominantly from the gene No.1 on Figs. 1 to 39. An example of the preferred embodiments of this gene set is a set of genes selected from genes Nos.1 to 200 on Figs. 1 to 7, and the base sequences of the cDNAs which are the transcription products of each gene is SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

The invention also provides a set of transcription products of each gene of the set of genes described above. This set of transcription products are preferably a set of RNAs or cDNAs, and a typical example of the cDNAs is DNA fragments having the base sequence of any of SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

The invention also provides a set of oligonucleotide probes, each of which hybridizes with each gene of the set of genes described above, or with each RNA or cDNA of the set of transcription products described above. In this case, the cDNA is preferably one having the base sequence of any of SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~.

Please replace the paragraph beginning on page 12, line 24, with the following rewritten paragraph:

The sequences (genome sequences, mRNA sequences and the like) of the housekeeping genes of the invention are well-known, registered under the GeneBank database register numbers shown in Column D in Figs. 1 to 39, and the genes of No.1 to 200 shown in Figs. 1 to 7 have the respective cDNA sequences represented by SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~. Accordingly, any of these housekeeping genes can be isolated by screening a human genome DNA library using a probe synthesized based on the sequences disclosed in the databases or the sequences represented by SEQ ID NOs: 1, 3, 5, 6, 8, 10-12, 14, 16-19, 21, 23, 25, 27, 28, 30-35, 37-39, 41-43, 45, 47, 49, 51, 53, 54, 56, 57, 59, 60, 62, 64, 66, 67, 69, 71, 72, 74, 75, 77, 79, 80, 82, 84, 86, 87, 89, 91, 93, 95, 97, 98, 100, 102, 103, 105, 107, 109, 111, 113, 115, 117, 118, 120, 122, 123, 125, 127, 128, 130-132, 134, 136, 137, 139, 141-143, 145, 146, 148, 150, 152, 154, 156, 157, 159, 161, 163, 164, 166, 168-170, 172, 174, 176, 178, 180, 181, 183, 185, 186, 188, 189, 191, 193, 195, 196, 198, 199, 201, 202, 204, 206-208, 210, 212, 214, 216, 218, 219, 221, 222, 224, 225, 227, 229, 231, 233, 234, 236, 237, 239, 241, 243, 245, 247, 248, 250, 252, 254, 256, 258, 260, 262, 263, 265, 267, 269, 270, 272, 274, 276-278, 280, 281, 283, 285-289, 291, 293, 295, 297, 299, 300, 302, 304, 306, 307, 309, 311-313, 315, 317, 319, 320, 322, 324, 326, 328, 330 and 331~~SEQ ID Nos.1 to 200~~. Also by method of PCR using a human genome library as a template, individual genes (DNA fragments) can be obtained. Even in the case of an unknown register number, the RNA of an intended gene can be identified by using a microarray GeneChip U133 probe set shown in Column A, and a library screening using this RNA or cDNA as a probe may for example be employed for obtaining the intended gene.